Claims

alternative

- 1. A roller chain for continuously guiding and/or stretching the width of a textile material web in a material web stretching machine comprising inner and outer members.

 (3, 4) successively connected in an alternating manner via chain joints,
 - (a) whereby every inner member (3) is comprised of two inner tabs (5) as well as two sleeves (6) connecting the inner tabs (5) with each other, and each outer member (4) is comprised of two outer tabs (7) as well as two bolts (2) connecting the outer tabs (7) with each other;

(b) whereby each sleeve (6) is coaxially supported on the associated bolt (2) in a rotatable manner;

- of the sleeve (6) for a running roller (9) as an outer ring (12) of a ball bearing (10) to be supplied via a lubrication channel (18) leading through the interior of the bolt (2);
- whereby the ball bearing (10) comprises an inner ring (11) coupled with the sleeve (6), and at each road a coaxial sealing ring (15) axially resting against the ball bearing; and
- (e) whereby the inner tabs (5) are unrotatably pressed onto the sleeve (6) axially against the inner ring

(11) of the ball bearing via a spacing element 25 bridging the sealing ring (15) in terms of indefinite 26 transmission of force;

characterized in that

- (f) the sealing ring (15) is substantially made of
 plastic and unrotatably coupled with the adjacent
 inner tab (5);
- metallic inserts (25) approximately equally (U) of 36 the bolt, is integrated in the sealing ring (15); 39
- (h) each insert (25) reaches approximately axially 38 through the sealing ring (15), whereby the overall 37 cross section of all inserts (25) measured in the plane of the ring is small vis-à-vis the ring area; and
- bearing (10) has at least one lubrication groove.

 (22) connecting the lubrication channel (18) of the bolt with a radial branch (19) and a lubrication hole (21) of the sleeve (6) with the interior (13) 43 of the ball bearing, said lubrication hole having been brought to coincide with said bolt lubrication channel.

The roller chain according to claim 1, characterized in that the inserts (24) have a hardness in the order of magnitude of the hardness of the inner tab (5) and the inner ring (11) of the ball bearing.

The roller chain according to claim 1 or 2, characterized in that the path of the lubricant leads from the radial branch (19) of the lubrication channel (18) of the bolt to the radial passage hole (21) of the sleeve (6) through a passage hole (20) of a sliding bush (8) unrotatably installed between the bolt (2) and the sleeve (6).

- The \roller chain according to at least one of claims 1 to 3, characterized in that balls serving as the inserts (25) are integrated in the sealing ring (15).
- The roller chain according to at least one of claims 1 to 4, characterized in that provision is made for three, preferably four inserts (25) in each sealing ring (15).
- The roller chain according to at least one of claims 1 to 5, characterized in that provision is made in the sealing ring (15) for two lubrication grooves (22) diametrally opposing each other.

7. The roller chain according to claim 6, characterized in that the lubrication groove (2) extends radially with respect to the axis (1) of the bolt.

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characterized in that the lubrication groove (22) generally leading radially outwards comprises a reversing barrier (28) in a ring area (30) located about axially above the (ringshaped) interior (13) of the ball bearing.

9. The roller chain according to at least one of claims 1 to 8, characterized in that the sealing ring (15) is connected with the adjacent inner tab (5) with torsional strength with the help of a cam (31).

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